

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/666,122A
Source: 1FW16
Date Processed by STIC: 1/24/07

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IFW16

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/666,122A

DATE: 01/24/2007
 TIME: 11:12:19

Input Set : A:\11311.1002U.txt
 Output Set: N:\CRF4\01242007\J666122A.raw

1 <110> APPLICANT: Laus, Reiner
 2 Gold, Mitchell H.
 3 Madhusudan, Peshwa
 4 Pickering, Grant
 5 Kylstra, Jelle
 7 <120> TITLE OF INVENTION: Immunotherapeutic Compositions and Methods for the
 8 Treatment of Moderately to Well-differentiated Cancers
 10 <130> FILE REFERENCE: 20642/1203635-US2
 12 <140> CURRENT APPLICATION NUMBER: US 10/666,122A
 13 <141> CURRENT FILING DATE: 2003-09-19
 15 <150> PRIOR APPLICATION NUMBER: US 60/412,271
 16 <151> PRIOR FILING DATE: 2002-09-20
 18 <150> PRIOR APPLICATION NUMBER: US 60/475,335
 19 <151> PRIOR FILING DATE: 2003-06-02
 21 <160> NUMBER OF SEQ ID NOS: 6
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 386
 27 <212> TYPE: PRT
 28 <213> ORGANISM: Homo sapiens
 30 <400> SEQUENCE: 1
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 33 Gly Phe Leu Phe Leu Leu Phe Phe Trp Leu Asp Arg Ser Val Leu Ala
 34 20 25 30
 35 Lys Glu Leu Lys Phe Val Thr Leu Val Phe Arg His Gly Asp Arg Ser
 36 35 40 45
 37 Pro Ile Asp Thr Phe Pro Thr Asp Pro Ile Lys Glu Ser Ser Trp Pro
 38 50 55 60
 39 Gln Gly Phe Gly Gln Leu Thr Gln Leu Gly Met Glu Gln His Tyr Glu
 40 65 70 75 80
 41 Leu Gly Glu Tyr Ile Arg Lys Arg Tyr Arg Lys Phe Leu Asn Glu Ser
 42 85 90 95
 43 Tyr Lys His Glu Gln Val Tyr Ile Arg Ser Thr Asp Val Asp Arg Thr
 44 100 105 110
 45 Leu Met Ser Ala Met Thr Asn Leu Ala Ala Leu Phe Pro Pro Glu Gly
 46 115 120 125
 47 Val Ser Ile Trp Asn Pro Ile Leu Leu Trp Gln Pro Ile Pro Val His
 48 130 135 140
 49 Thr Val Pro Leu Ser Glu Asp Gln Leu Leu Tyr Leu Pro Phe Arg Asn
 50 145 150 155 160
 51 Cys Pro Arg Phe Gln Glu Leu Glu Ser Glu Thr Leu Lys Ser Glu Glu
 52 165 170 175

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53 Phe Gln Lys Arg Leu His Pro Tyr Lys Asp Phe Ile Ala Thr Leu Gly
54 180 185 190
55 Lys Leu Ser Gly Leu His Gly Gln Asp Leu Phe Gly Ile Trp Ser Lys
56 195 200 205
57 Val Tyr Asp Pro Leu Tyr Cys Glu Ser Val His Asn Phe Thr Leu Pro
58 210 215 220
59 Ser Trp Ala Thr Glu Asp Thr Met Thr Lys Leu Arg Glu Leu Ser Glu
60 225 230 235 240
61 Leu Ser Leu Leu Ser Leu Tyr Gly Ile His Lys Gln Lys Glu Lys Ser
62 245 250 255
63 Arg Leu Gln Gly Gly Val Leu Val Asn Glu Ile Leu Asn His Met Lys
64 260 265 270
65 Arg Ala Thr Gln Ile Pro Ser Tyr Lys Lys Leu Ile Met Tyr Ser Ala
66 275 280 285
67 His Asp Thr Thr Val Ser Gly Leu Gln Met Ala Leu Asp Val Tyr Asn
68 290 295 300
69 Gly Leu Leu Pro Pro Tyr Ala Ser Cys His Leu Thr Glu Leu Tyr Phe
70 305 310 315 320
71 Glu Lys Gly Glu Tyr Phe Val Glu Met Tyr Tyr Arg Asn Glu Thr Gln
72 325 330 335
73 His Glu Pro Tyr Pro Leu Met Leu Pro Gly Cys Ser Pro Ser Cys Pro
74 340 345 350
75 Leu Glu Arg Phe Ala Glu Leu Val Gly Pro Val Ile Pro Gln Asp Trp
76 355 360 365
77 Ser Thr Glu Cys Met Thr Thr Asn Ser His Gln Gly Thr Glu Asp Ser
78 370 375 380
79 Thr Asp
80 385
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83 <211> LENGTH: 3089
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85 <213> ORGANISM: Homo sapiens
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90 gaccgaagtg tactagccaa ggagttgaag tttgtgactt tgggttttcg gcatggagac 180
91 cgaagtccca ttgacacaccc tccccactgac cccataaaagg aatcctcatg gccacaagga 240
92 tttggccaaac tcacccagct gggcatggag cagcattatg aacttggaga gtatataaga 300
93 aagagatata gaaaatttctt gaatgagtcc tataaacatg aacaggttta tattcgaagc 360
94 acagacgtt accggacttt gatgagtgc atgacaaacc tggcagccct gtttccccca 420
95 gaaggtgtca gcatctggaa tcttataccta ctctggcagc ccatacccggt gcacacagtt 480
96 cctctttctg aagatcagtt gatatacctg cctttcagga actgcccctcg ttttcaagaa 540
97 cttgagagtg agactttgaa atcagaggaa ttccagaaga ggctgcaccc ttataaggat 600
98 tttatagcta ccttggaaa actttcagga ttacatggcc aggaccttt tggaatttgg 660
99 agtaaagtct acgacccttt atattgtgag agtgttcaca atttcacttt accctcctgg 720
100 gcccactgagg acaccatgac taagttgaga gaattgtcag aattgtccct cctgtccctc 780
101 tatggaattc acaagcagaa agagaaaatct aggttccaag ggggtgtcct ggtcaatgaa 840
102 atccctcaatc acatgaagag agcaactcag ataccaagct acaaaaaact tatcatgtat 900
103 tctgcgcatg acactactgt gagttggccta cagatggcgc tagatgttta caacggactc 960

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106	tgcagcccca	gctgtcctct	ggagaggtt	gctgagctgg	ttggccctgt	gatccctcaa	1140									
107	gactggtcca	cggagtgtat	gaccacaaac	agccatcaag	gtactgagga	cagtacagat	1200									
108	tagtgtgcac	agagatctct	gtagaaaagag	tagtgcct	ttctcagggc	agatgtatgt	1260									
109	ttgagaacat	actttggcca	ttacccccc	gcttgagga	aatgggctt	tggatgatta	1320									
110	ttttatgttt	tagggacccc	caacctcagg	caattcctac	ctcttcacct	gaccctgccc	1380									
111	ccacttgcca	taaaacttag	ctaagtttg	ttttgtttt	cagcgttaat	gtaaaaggggc	1440									
112	agcagtgccca	aaatataatc	agagataaaag	cttaggtcaa	agttcataga	gttcccattga	1500									
113	actatatgac	tggccacaca	ggatctttt	tatttaagga	ttctgagatt	ttgcttgagc	1560									
114	aggatttagat	aagtctgttc	tttaaatttc	tgaaatggaa	cagatttcaa	aaaaaaattcc	1620									
115	cacaatctag	ggtgggaaca	aggaaggaaa	gatgtgaata	ggctgatggg	gaaaaaaacca	1680									
116	atttacccat	cagttccagc	cttctctcaa	ggagaggcaa	agaaaggaga	tacagtggag	1740									
117	acatctggaa	agtttctcc	actggaaaac	tgctactatc	tgtttttata	tttctgttaa	1800									
118	aatatatgag	gctacagaac	taaaaattaa	aaccttgg	tgtcccttgg	tccttggaaaca	1860									
119	tttatgttcc	ttttaaagaa	acaaaaatca	aacttacag	aaagatttga	tgtatgtat	1920									
120	acatatacg	gctcttgaag	tatataatc	atagcaaata	agtcatctga	tgagaacaag	1980									
121	ctatttgggc	acaacacatc	aggaaagaga	gcaccacgt	atggagttc	tccagaagct	2040									
122	ccatgtgataa	gagatgttga	ctctaaagt	gatttaaggc	caggcatgt	ggtttacgc	2100									
123	tataatccca	gcattttggg	actccgggt	gggcagatca	ctttagtca	ggagctcaag	2160									
124	atcagcctgg	gcaacatgg	gaaaccttgc	ctctacataa	aatacaaaaa	cttagatggg	2220									
125	catggtgctg	tgtgcctata	gtccactact	tgtggggcta	aggcaggagg	atcaacttgg	2280									
126	ccccggaggt	cgaggctaca	gtgacccaag	agtgcactac	tgtactccag	ccaggcgaag	2340									
127	agagcggagac	cctgtctcaa	taaataaaata	aataaaataa	taaataaaata	aataaaaaaca	2400									
128	aagttgatta	agaaaaggaag	tataggccag	gcacagtggc	tcacacctgt	aatccttgca	2460									
129	tttggaaagg	ctgaggcagg	aggatcaett	taggcctgg	gtgttcaaga	ccagcctgg	2520									
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131	aacaaaatta	gaaatgtat	tatgttatgt	tctaagtggc	tccaagttca	aaacttattg	2640									
132	gaatgtttag	agtgtggta	cgaaatacgt	taggaggaca	aaaggaatgt	gtaagtcttt	2700									
133	aatgccgata	tcttcagaaa	acctaagcaa	acttacaggt	cctgctgaaa	ctgcccactc	2760									
134	tgcaagaaga	aatcatgata	tagcttcca	tgtggcagat	ctacatgtct	agagaacact	2820									
135	gtgctctatt	accattatgg	ataaagatga	gatggttct	agagatgggt	tctactggct	2880									
136	gccagaatct	agagcaaagc	catccccct	cctgggtgg	cacagaatga	ctgacaaaga	2940									
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138	cattttctat	gcttgtaact	gtcttctagc	agtgagccaa	atgtaaaata	gtgaataaaag	3060									
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142	<211>	LENGTH:	144													
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146	<400>	SEQUENCE:	3													
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149	Ser	Ala	Pro	Ala	Arg	Ser	Pro	Ser	Pro	Ser	Thr	Gln	Pro	Trp	Glu	His
150							20			25					30	
151	Val	Asn	Ala	Ile	Gln	Glu	Ala	Arg	Arg	Leu	Leu	Asn	Leu	Ser	Arg	Asp
152								35		40					45	
153	Thr	Ala	Ala	Glu	Met	Asn	Glu	Thr	Val	Glu	Val	Ile	Ser	Glu	Met	Phe
154								50		55					60	

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155 Asp Leu Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys
156 65 70 75 80
157 Gln Gly Leu Arg Gly Ser Leu Thr Lys Leu Lys Gly Pro Leu Thr Met
158 85 90 95
159 Met Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser
160 100 105 110
161 Cys Ala Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys
162 115 120 125
163 Asp Phe Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu
164 130 135 140
166 <210> SEQ ID NO: 4
167 <211> LENGTH: 767
168 <212> TYPE: DNA
169 <213> ORGANISM: Homo sapiens
171 <400> SEQUENCE: 4
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173 cccgcccgtc cgcccgccccc cagcacgcag ccctgggagc atgtaatgc catccaggag 120
174 gcccggcgctc tcctgaacct gagtagagac actgctgctg agatgaatga aacagtagaa 180
175 gtcatctcaq aaatgtttga cctccaaqgag ccgacactgccc tacaqasccg cctggagctg 240
176 tacaaggcagg gcctgcgggg cagcctcacc aagctcaagg gccccttgac catgatagcc 300
177 agccactaca agcagcactg ccctccaacc ccggaaactt cctgtgcaac ccagattatc 360
178 acctttgaaa gtttcaaaga gaacctgaag gactttctgc ttgtcatccc ctttgactgc 420
179 tgggagccag tccaggagtg agaccggcca gatgaggctg gccaagccgg ggagctgctc 480
180 tctcatgaaa caagagctag aaactcagga tggtcatctt ggagggacca aggggtgggc 540
181 cacagccatg gtgggagtgcc cctggacctg ccctgggcca cactgaccct gatacaggca 600
182 tggcagaaga atggaaatat ttatactga cagaaatcag taatatttat atatttatat 660
183 ttttaaaaata ttatattatt tatttattta agttcatatt ccatatttat tcaagatgtt 720
184 ttaccgtaat aattattatt aaaaatatgc ttctaaaaaaa aaaaaaaaa 767
186 <210> SEQ ID NO: 5
187 <211> LENGTH: 144
188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Made in a lab from human amino acids
194 <400> SEQUENCE: 5
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196 1 5 10 15
197 Ser Ala Pro Ala Arg Ser Pro Ser Pro Ser Thr Gln Pro Trp Glu His
198 20 25 30
199 Val Asn Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp
200 35 40 45
201 Thr Ala Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe
202 50 55 60
203 Asp Leu Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys
204 65 70 75 80
205 Gln Gly Leu Arg Gly Ser Leu Thr Lys Leu Lys Gly Pro Leu Thr Met
206 85 90 95
207 Met Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser
208 100 105 110

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209 Cys Ala Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys
210 115 120 125
211 Asp Phe Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu
212 130 135 140
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215 <211> LENGTH: 767
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Made in a lab from human nucleic acids
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224 cccgcccgcgt cgcccagccc cagcacgcag ccctgggagc atgtaatgc catccaggag 120
225 gccccggcgtc tcctgaacct gagtagagac actgctgctg agatgaatga aacagttagaa 180
226 gtcatctcag aaatgtttga cctccaggag ccgacacctgc tacagacccg cctggagctg 240
227 tacaaggcagg gcctgcgggg cagcctcacc aagctcaagg gccccttgac catgatagcc 300
228 agccactaca agcagcactg ccctccaacc ccggaaactt cctgtgcaac ccagattatc 360
229 acctttgaaa gtttcaaaga gaacctgaag gactttctgc ttgtcatccc ctttgactgc 420
230 gggagccag tccaggagtg agacggccca gatgaggctg gccaaggccgg ggagctgc 480
231 tctcatgaaa caagagctag aaactcagga tggcatctt ggagggacca aggggtgggc 540
232 cacagccatg gtgggagtgg cctggacctg ccctgggcca cactgaccct gatacaggca 600
233 tggcagaaga atggaaatat ttataactga cagaaaatcag taatatttat atatttat 660
234 tttaaaaata ttattttatt tatttttta agttcatatt ccatatttat tcaagatgtt 720
235 ttaccgtaat aattattatt aaaaatatgc ttctaaaaaa aaaaaaaa 767

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/666,122A

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Input Set : A:\11311.1002U.txt

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